

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/044,969	01/15/2002	Yousuke Moriuchi	026575-065	2991
7590 07/26/2006			EXAMINER	
Platon N. Mandros			EREZO, DARWIN P	
BURNS, DOANE, SWECKER & MATHIS, L.L.P. P.O. Box 1404 Alexandria, VA 22313-1404			ART UNIT	PAPER NUMBER
			3731	

DATE MAILED: 07/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/044,969	MORIUCHI ET AL.		
Office Action Summary	Examiner	Art Unit		
	Darwin P. Erezo	3731		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on <u>27 Ap</u> 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ⊠ Claim(s) 1-4,6,7 and 16-30 is/are pending in th 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-4,6,7 and 16-30 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa			

Application/Control Number: 10/044,969 Page 2

Art Unit: 3731

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/27/06 has been entered.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

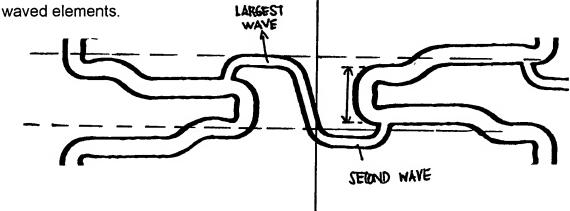
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3, 6, 16-20, 22, 24-29 are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,113,627 to Jang.

As to claims 1,17 and 26, Figure 4 of Jang, which is shown below, discloses an expandable stent having a plurality of annular expanding members arranged a predetermined distance apart from each other in an axial direction of the stent and forming a waved element; and a plurality of waved connecting members connecting bottoms of the waved elements; wherein the plurality of annular expanding members

Application/Control Number: 10/044,969

Art Unit: 3731

are arranged in an axial direction of the stent such that no substantial phase different exited in the waves of the waved elements (see enclosed Fig.); and each of the waved connecting members has a plurality of waves including a wave formed in the clearance between adjacent annual expanding members and having an amplitude larger than that of the other wave, the largest wave having a height measured circumferentially of the stent (see figure below) the ridge of the waved elements having width measured circumferentially of the stent (see figure below), the wave height of the largest wave being larger than the width of the ridge; and wherein the plurality of waves comprising each waved connecting members includes a plurality of waves positioned between the



As to claims 2, 18, 19, 27 and 28, the ridges depicted above are connected to adjacent ridges. Also, the connecting members can be viewed as connecting the bottom of the waves, as shown in the last Office action.

As to claims 3, 20 and 29, the figure above shows the width of each waved connecting member not being larger than ½ of the width of the waved element.

As to claims 6 and 22, the total length of the connecting member is more than 1.3 times the distance between the ridges (see figure above).

Art Unit: 3731

As the claim 16, the waved connecting member have at least three waves (see the figure in the last office action).

As to claims 24 and 25, Fig. 4 shows a plurality of annular connecting members, one which could be identified as a third annular expanding member. The annular connecting members have the configuration that is recited in the claims, which is similar to the rejected claim 1 above.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 4, 7, 21, 23 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jang.

Jang teaches all the limitations of the claims except for any specific recitation of the width of each of the waves connecting members falling within the range of 0.03-0.08 mm, or the width of the clearance between adjacent annular expanding members falling within the range of 0.4-0.8mm. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Jang to arrive at said ranges, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955).

Application/Control Number: 10/044,969 Page 5

Art Unit: 3731

Response to Arguments

6. Applicant's arguments filed 4/27/06 have been fully considered but they are not persuasive.

The applicant amended the independent claims in an attempt to overcome the Jang reference. However, the phrase "each waved connecting member includes a plurality of waves" does not provide enough structural limitation to overcome the rejections under said reference. The new phrase does not define the arrangement of the waves, but merely states the it includes a plurality of waves. As illustrated above, Jang teaches a connecting member that can be viewed as having several waves.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darwin P. Erezo whose telephone number is (571) 272-4695. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T. Nguyen can be reached on (571) 272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/044,969

Art Unit: 3731

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

de

ANHTUANT. NGUYEN
SUPERVISORY PATENT EXAMINER